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Flowchart of the invention process"Experimental" targets (1)

Cells
 ↓
 Enrich for antigen binding cells
 Enrich for specific cell population
 ↓
 Extract DNA or RNA
 ↓
 Label specific for target encoding

Probe set (2)

Probes design
 ↓
 Probes manufacture
 ↓

Probes immobilized as an array

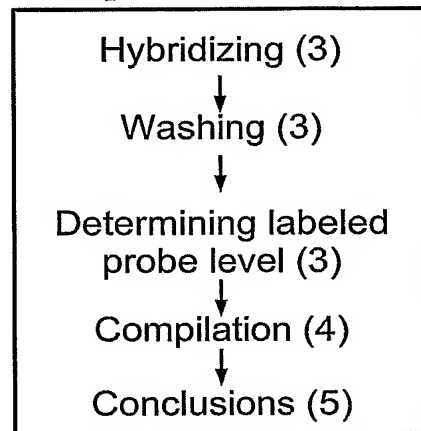


Fig. 1

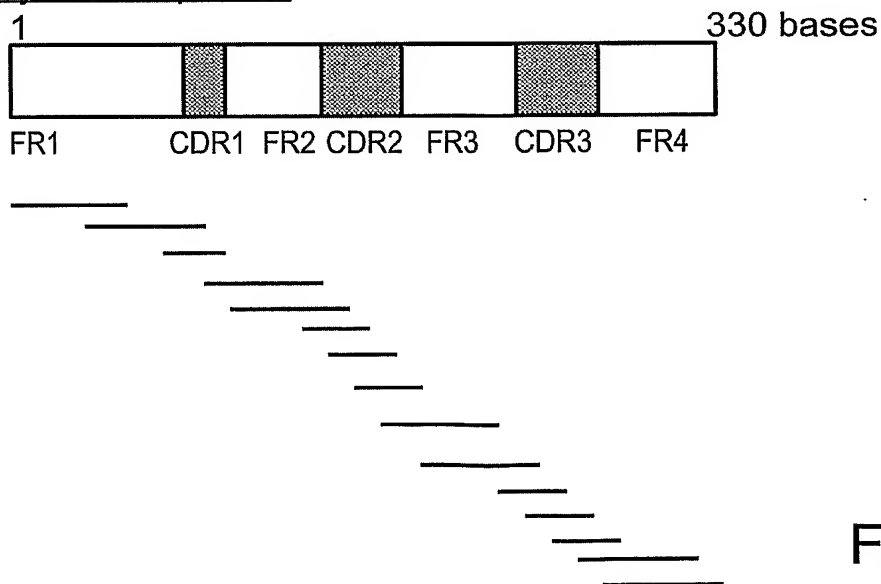
Illustration of the variable region gene and an example of overlapping positively labeled probes

Fig. 2

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Examples of multiple sample experiment. The probe arrays represented have the same content.

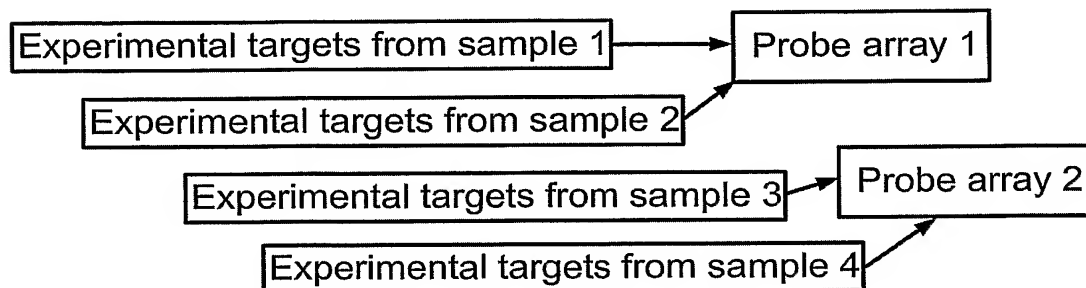


Fig. 3a

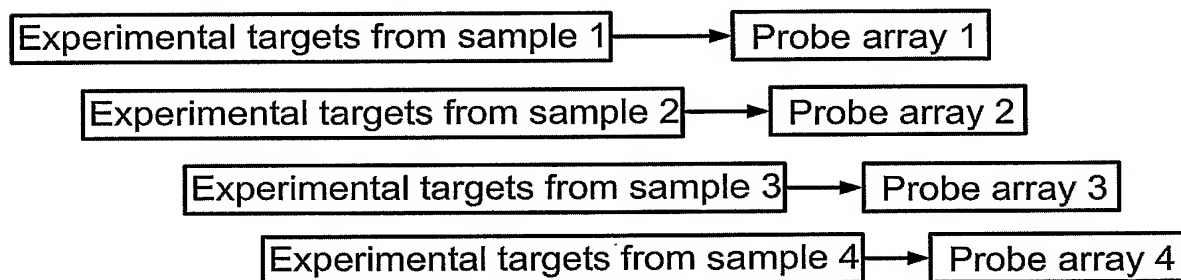


Fig. 3b

Scheme illustrating end labeled plus and minus strand

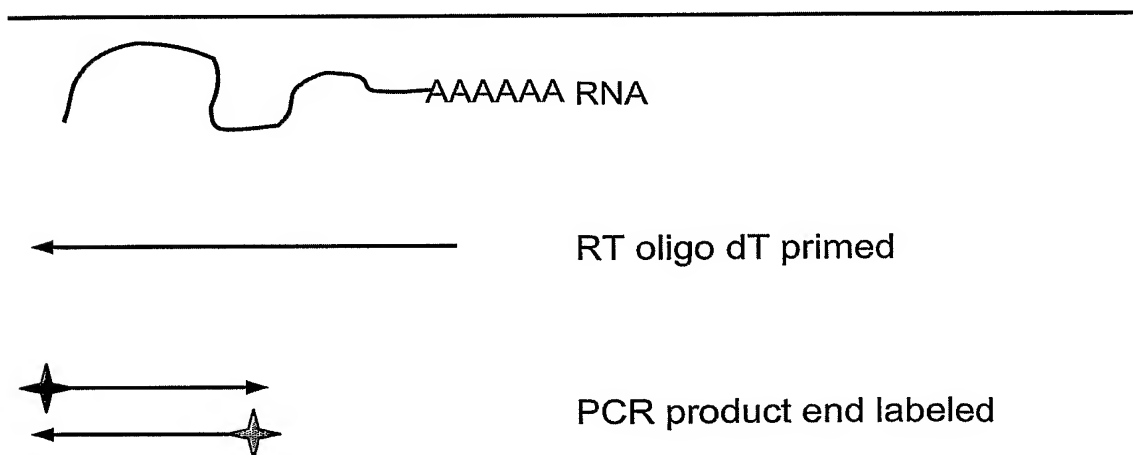


Fig. 4

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Scheme illustrating PCR amplification of specific regions within the target sequence.

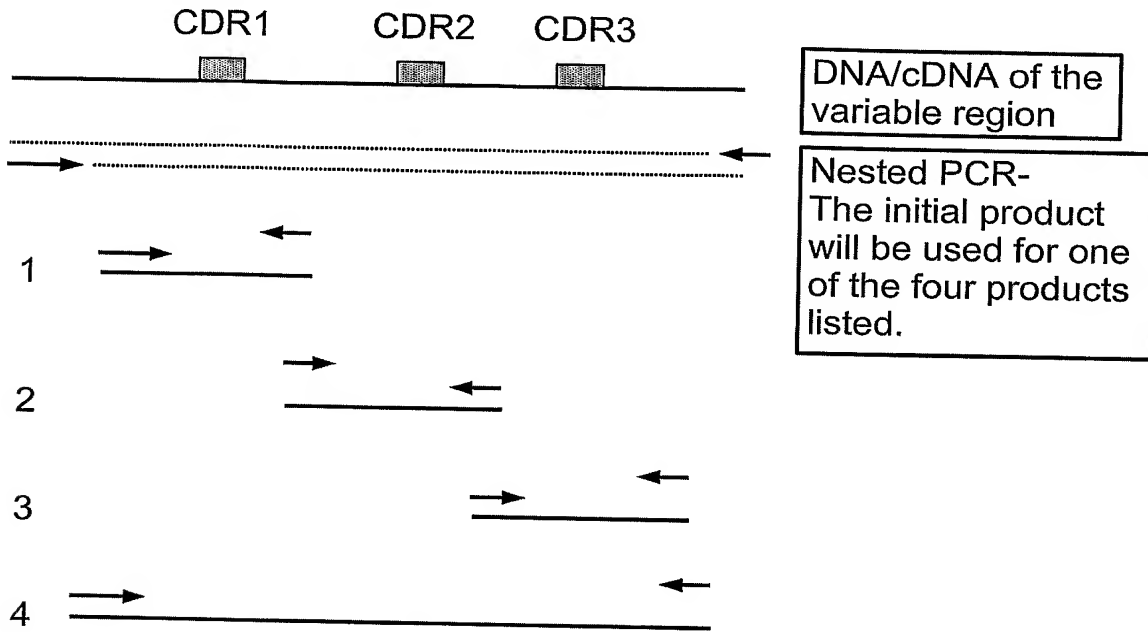


Fig. 5

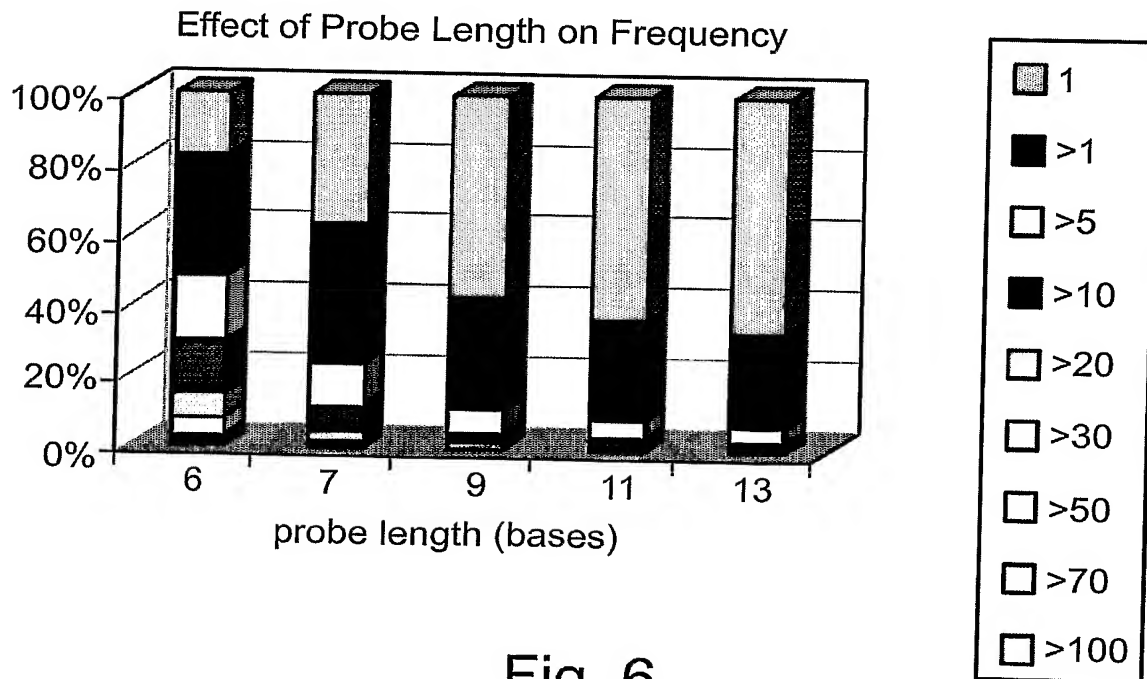


Fig. 6

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Fig. 7

CAGGTGCAGCTGGTGCACTCTGGGGAGGCCTAGTCCAGCCGGGGGGTCCCTGAGACTCTCCTGTGCCGCTTTGGATTCAACTTCAGTTCCTA
TGTTATGCACTGGGTCCGCCAGGCTCCAGGGAAGGACTGGAATATCTTTACGGATTAGTAGTGATGGAGACAACATATCAATGCAAAACTCTG
TGAAGGSCAGATTCAACCACTCCAGACTCCAGAGACAATCCAAGAACACACTGTTCTTCAAATGGGCAGCCTGAGAACTGAGGACGCTGGCTGTCTACTAC
TGTGCGAGAGATCGTTACTATGAGACTAGTGGTTCCAATGCTTTTGTATGTCCTGGGGCCCAAGGAACAATGGTCGTCGTCCTTC

Fig. 8

VH3-64	GI 23320665 GB	GAGGTGCAGCTGGTGGAGTCTGGGGAAGGCTTGGTCCAGCCTGGGGGTCCCTGAGACTC	60
		CAGGTGCAGCTGGTGCAGTCTGGGGAGGCGCTAGTCCAGCCGGGGGTCCCTGAGACTC	60
VH3-64	GI 23320665 GB	TCCTGTGCAGCCCTCTGGATTCAACCTTCAGTAGCTATGCTATGCACCTGGGTCCGCCAGGCT	120
		TCCTGTGCCGCCCTTTGGATTCAACTTCAGTTCCTATGTTATGCACCTGGGTCCGCCAGGCT	120
VH3-64	GI 23320665 GB	CCAGGGAAGGACTGGAATATGTTTCAGCTATTAGTAGTAATGGGGTAGCACATATTAT	180
		CCAGGGAAGGACTGGAATATCTTTTCAGCGATTAGTAGTGTGAGAGACAACATATCAT	180
VH3-64	GI 23320665 GB	GCAGACTCTGTGAAGGCGAGATTACCATCTCCAGAGACAATTCGAAGAACACGCTGTAT	240
		GCAAACTCTGTGAAGGCGAGATTACCAAGCTCCAGAGACAATTCGAAGAACACACTGTTT	240
D3-22			300
VH3-64	GI 23320665 GB	CTTCAAATGGGCAGCCTGAGAGCTGAGGACATGGCTGTGTATTACTGTGCGAGAGA	2
		CTTCAAATGGGCAGCCTGAGAACTGAGGACGTGGCTGTCTACTACTGTGCGAGAGATCG-	296
D3-22			299
JH3	GI 23320665 GB	ATTACTATGATAGTAGTGGTTATTACTAC	360
		GATGCTTTTGATGTCTGGGGCCCAAGGGACA	31
		-TTACTATGAGACTAGTGGTT-----CCAATGCTTTTGATGTCTGGGGCCCAAGGAACA	30
JH3	GI 23320665 GB		351
			420
			49
			369

Fig. 9